



**OAQ SOURCE SPECIFIC OPERATING AGREEMENT
OA-07: Sand and Gravel Plants (326 IAC 2-9-7)**

State Form 53444 (9-07)

INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

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NOTES:

- The purpose of this form is to identify all of the source specific operating agreement requirements for 326 IAC 2-9-7.
- Detailed **instructions** for this form are available online at www.in.gov/idem/permits/air/apps/instructions/oa07instructions.html.
- Rule specific definitions are listed in 326 IAC 2-9-7(a) for annual throughput, sand and gravel, surfactant, wet process in a pit and quarry operation, and wet suppression systems.
- All information submitted to IDEM will be made available to the public unless it is submitted under a claim of confidentiality. Claims of confidentiality must be made at the time the information is submitted to IDEM, and must follow the requirements set out in 326 IAC 17.1-4-1. Failure to follow these requirements exactly will result in your information becoming a public record, available for any one to inspect and photocopy.

Part A: Source Description

Part A identifies the source and describes the nature, design capacity, and typical operating schedule of the source.

1. Source Description:

2. Particulate Matter Emissions:

Including fugitive sources: tons per year

Excluding fugitive sources: tons per year

3. Number of Crushers:

4. Number of Screens:

5. Annual Throughput: tons of sand and gravel per year

6. Operation Schedule: hours per day days per week weeks per year

Part B: Operating Agreement

Part B certifies that the operation qualifies for the source specific operating agreement.

7. Operating Agreement

- ☐ I have reviewed the requirements under 326 IAC 2-9 and have determined that the proposed operation qualifies for a source specific operating agreement (SSOA) under this rule.

Name (typed)

Title

Signature

Date

Part C: Compliance Option

Part C identifies the option that source is choosing for compliance with the requirements of 326 IAC 2-9-7.

Choose only ONE of the following three options.

- ☐ **OPTION 1:** I will comply with the requirements of 326 IAC 2-9-7 by carrying out the following set of requirements for sand and gravel plants that do not emit particulate matter in excess of or equal to 25 tons per year, including fugitive particulate emissions, utilizing at most 5 crushers, 10 screens, and a conveying operation.

Emission Control Requirements: 326 IAC 2-9-7(b)(4)(F)

Fugitive particulate emissions shall be controlled by applying water on storage piles and unpaved roadways on an as needed basis, such that the following visible emission conditions are met:

- (i) Visible emissions from storage piles shall not exceed twenty percent (20%) in twenty-four (24) consecutive readings in a six (6) minute period. This limitation shall not apply during periods when application of control measures are ineffective or unreasonable due to sustained high wind speeds. The opacity shall be determined using 40 CFR 60, Appendix A, Method 9*, except that the opacity shall be observed at approximately four (4) feet from the surface at the point of maximum opacity. The observer shall stand at least fifteen (15) feet, but not more than one-fourth (¼) mile, from the plume and at approximately right angles to the plume.
- (ii) Visible emissions from unpaved roadways shall not exceed an average instantaneous opacity of twenty percent (20%). Average instantaneous opacity shall be the average of twelve (12) instantaneous opacity readings, taken for four (4) vehicle passes, consisting of three (3) opacity readings for each vehicle pass. The three (3) opacity readings for each vehicle pass shall be taken as follows:
 - (AA) The first shall be taken at the time of emission generation.
 - (BB) The second shall be taken five (5) seconds after the first.
 - (CC) The third shall be taken five (5) seconds after the second or ten (10) seconds after the first. The three (3) readings shall be taken at approximately four (4) feet from the surface at the point of maximum opacity. The observer shall stand at least fifteen (15) feet, but not more than one-fourth (¼) mile, from the plume and at approximately right angles to the plume.

Process Limitation: 326 IAC 2-9-7(b)(1) and (b)(4) (C), (E), (G), and (H)

- Limit the annual throughput to less than 410,000 tons per year.
- A wet process or continuous wet suppressions shall be used.
- Visible emissions from the screening and conveying operations shall not exceed an average of ten percent (10%) opacity in twenty-four (24) consecutive readings in a six (6) minute period, and visible emissions from the crushing operation shall not exceed an average of fifteen percent (15%) opacity in twenty-four (24) consecutive readings in a six (6) minute period. Compliance with these limitations shall be determined by 40 CFR 60, Appendix A, Method 9*.
- Fugitive particulate emissions at a sand and gravel plant shall not escape beyond the property line or boundaries of the property, right-of-way, or easement on which the source is located pursuant to 326 IAC 6-4.
- The source shall comply with 40 CFR 60.670, Standards of Performance for Nonmetallic Mineral Processing Plants*, if applicable.

Monitoring Requirements: 326 IAC 2-9-7(b)(4)(D)

All manufacturing equipment that generates particulate emissions and control devices shall be operated and maintained at all times of plant operation in such a manner as to meet the requirements of this rule.

Record Keeping Requirements: 326 IAC 2-9-7(b)(4)(A)

Maintain annual throughput records at the site on a calendar year basis.

Part C: Compliance Option

Part C identifies the option that source is choosing for compliance with the requirements of 326 IAC 2-9-7.

Choose only ONE of the following three options.

- ☐ **OPTION 2:** I will comply with the requirements of 326 IAC 2-9-7 by carrying out the following set of requirements for sand and gravel plants that do not emit particulate matter in excess of or equal to 25 tons per year, excluding fugitive particulate emissions utilizing at most 9 crushers, 20 screens, and a conveying operation.

Emission Control Requirements: 326 IAC 2-9-7(b)(4)(F)

Fugitive particulate emissions shall be controlled by applying water on storage piles and unpaved roadways on an as needed basis, such that the following visible emission conditions are met:

- (i) Visible emissions from storage piles shall not exceed twenty percent (20%) in twenty-four (24) consecutive readings in a six (6) minute period. This limitation shall not apply during periods when application of control measures are ineffective or unreasonable due to sustained high wind speeds. The opacity shall be determined using 40 CFR 60, Appendix A, Method 9*, except that the opacity shall be observed at approximately four (4) feet from the surface at the point of maximum opacity. The observer shall stand at least fifteen (15) feet, but not more than one-fourth ($\frac{1}{4}$) mile, from the plume and at approximately right angles to the plume.
- (ii) Visible emissions from unpaved roadways shall not exceed an average instantaneous opacity of twenty percent (20%). Average instantaneous opacity shall be the average of twelve (12) instantaneous opacity readings, taken for four (4) vehicle passes, consisting of three (3) opacity readings for each vehicle pass. The three (3) opacity readings for each vehicle pass shall be taken as follows:
 - (AA) The first shall be taken at the time of emission generation.
 - (BB) The second shall be taken five (5) seconds after the first.
 - (CC) The third shall be taken five (5) seconds after the second or ten (10) seconds after the first. The three (3) readings shall be taken at approximately four (4) feet from the surface at the point of maximum opacity. The observer shall stand at least fifteen (15) feet, but not more than one-fourth ($\frac{1}{4}$) mile, from the plume and at approximately right angles to the plume.

Process Limitation: 326 IAC 2-9-7(b)(2) and (b)(4) (C), (E), (G), and (H)

- Limit the annual throughput to less than 1,000,000 tons per year.
- A wet process or continuous wet suppressions shall be used.
- Visible emissions from the screening and conveying operations shall not exceed an average of ten percent (10%) opacity in twenty-four (24) consecutive readings in a six (6) minute period, and visible emissions from the crushing operation shall not exceed an average of fifteen percent (15%) opacity in twenty-four (24) consecutive readings in a six (6) minute period. Compliance with these limitations shall be determined by 40 CFR 60, Appendix A, Method 9*.
- Fugitive particulate emissions at a sand and gravel plant shall not escape beyond the property line or boundaries of the property, right-of-way, or easement on which the source is located pursuant to 326 IAC 6-4.
- The source shall comply with 40 CFR 60.670, Standards of Performance for Nonmetallic Mineral Processing Plants*, if applicable.

Monitoring Requirements: 326 IAC 2-9-7(b)(4)(D)

All manufacturing equipment that generates particulate emissions and control devices shall be operated and maintained at all times of plant operation in such a manner as to meet the requirements of this rule.

Record Keeping Requirements: 326 IAC 2-9-7(b)(4)(A)

Maintain annual throughput records at the site on a calendar year basis.

Part C: Compliance Option

Part C identifies the option that source is choosing for compliance with the requirements of 326 IAC 2-9-7.

Choose only ONE of the following three options.

- ☐ **OPTION 3:** I will comply with the requirements of 326 IAC 2-9-7 by carrying out the following set of requirements for sand and gravel plants that do not emit particulate matter in excess of or equal to 100 tons per year, excluding fugitive particulate emissions, utilizing at most 12 crushers, 24 screens, and a conveying operation.

Emission Control Requirements: 326 IAC 2-9-7(b)(4)(F)

Fugitive particulate emissions shall be controlled by applying water on storage piles and unpaved roadways on an as needed basis, such that the following visible emission conditions are met:

- (i) Visible emissions from storage piles shall not exceed twenty percent (20%) in twenty-four (24) consecutive readings in a six (6) minute period. This limitation shall not apply during periods when application of control measures are ineffective or unreasonable due to sustained high wind speeds. The opacity shall be determined using 40 CFR 60, Appendix A, Method 9*, except that the opacity shall be observed at approximately four (4) feet from the surface at the point of maximum opacity. The observer shall stand at least fifteen (15) feet, but not more than one-fourth (¼) mile, from the plume and at approximately right angles to the plume.
- (ii) Visible emissions from unpaved roadways shall not exceed an average instantaneous opacity of twenty percent (20%). Average instantaneous opacity shall be the average of twelve (12) instantaneous opacity readings, taken for four (4) vehicle passes, consisting of three (3) opacity readings for each vehicle pass. The three (3) opacity readings for each vehicle pass shall be taken as follows:
 - (AA) The first shall be taken at the time of emission generation.
 - (BB) The second shall be taken five (5) seconds after the first.
 - (CC) The third shall be taken five (5) seconds after the second or ten (10) seconds after the first. The three (3) readings shall be taken at approximately four (4) feet from the surface at the point of maximum opacity. The observer shall stand at least fifteen (15) feet, but not more than one-fourth (¼) mile, from the plume and at approximately right angles to the plume.

Process Limitation: 326 IAC 2-9-7(b)(3) and (b)(4) (C), (E), (G), and (H)

- Limit the annual throughput to less than 3,100,000 tons per year.
- A wet process or continuous wet suppressions shall be used.
- Visible emissions from the screening and conveying operations shall not exceed an average of ten percent (10%) opacity in twenty-four (24) consecutive readings in a six (6) minute period, and visible emissions from the crushing operation shall not exceed an average of fifteen percent (15%) opacity in twenty-four (24) consecutive readings in a six (6) minute period. Compliance with these limitations shall be determined by 40 CFR 60, Appendix A, Method 9*.
- Fugitive particulate emissions at a sand and gravel plant shall not escape beyond the property line or boundaries of the property, right-of-way, or easement on which the source is located pursuant to 326 IAC 6-4.
- The source shall comply with 40 CFR 60.670, Standards of Performance for Nonmetallic Mineral Processing Plants*, if applicable.

Monitoring Requirements: 326 IAC 2-9-7(b)(4)(D)

All manufacturing equipment that generates particulate emissions and control devices shall be operated and maintained at all times of plant operation in such a manner as to meet the requirements of this rule.

Record Keeping Requirements: 326 IAC 2-9-7(b)(4)(B)

Maintain at the site throughput records for the previous twelve (12) months on a monthly rolling total.